

**Update from CEF
Trust Services Forum
Berlin, 25 September 2019**



Apostolos Apladas
eSignature Building Block
DIGIT – European Commission



The shift from paper to digital presents new challenges

At the heart of the digital transformation of public administrations is the shift from paper based public services to digital public services.

How can we ensure that citizens, businesses and public administrations can securely identify themselves and complete transactions online?

The eIDAS Regulation was designed to support the transformation.

With eIDAS




Digital services have the same legal validity as traditional paper process



Digital services can be trusted and work securely across borders



Citizens and businesses benefit from the convenience of digital services and can make the most of the digital single market



How is the Commission helping governments and businesses build digital services which comply to eIDAS and EU regulations?

Standards.

The Connecting Europe Facility's mission is to support projects to use basic components, based on standards, that will ensure systems can communicate with each other.

We call these basic digital components

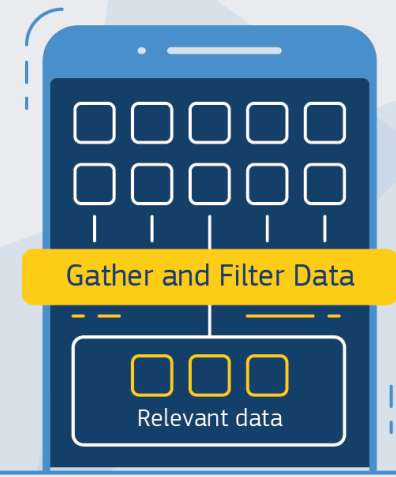
Building Blocks.

Data Economy



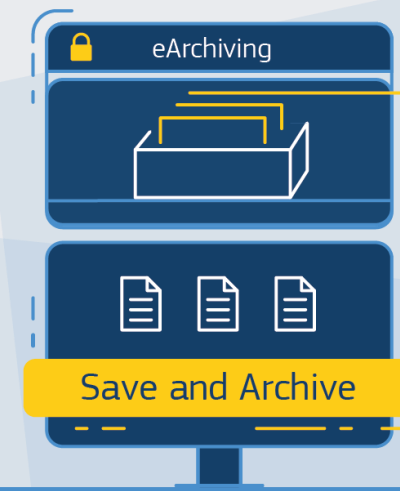
Big Data Test Infrastructure

Experiment with big data in a safe environment



Context Broker

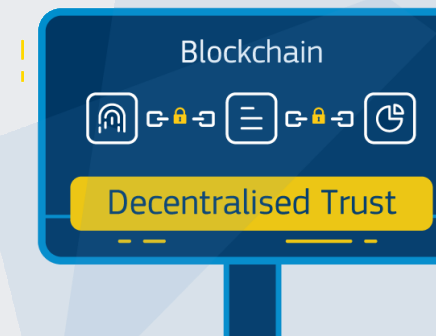
Collect & share real-time data from multiple sources



eArchiving

Store and preserve digital information

New

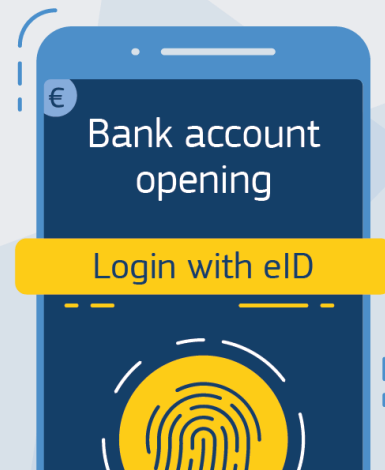


Blockchain

Increase trust through data security, privacy and transparency

New

eIDAS enablers



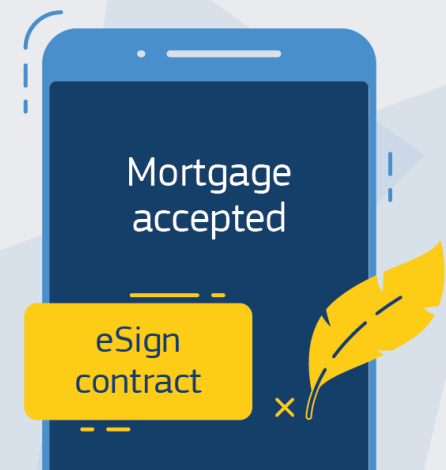
eID

Securely identify European citizens



eDelivery

Exchange data and documents securely



eSignature

Create and verify legally recognised electronic signatures

eInvoicing Directive



eInvoicing

Send and receive electronic invoices



eTranslation

Provide a multi-lingual public service

How does CEF support projects to use the building blocks?

Free Services



Training sessions



Sample software



Testing services



How does CEF support projects to use the building blocks?

Funding opportunities

Call	Open Calls	Deadline for submissions
CEF-TC-2019-1 Automated Translation (indicative budget: €4M)	14 February 2019	14 May 2019
CEF-TC-2019-1 eID & eSignature (indicative budget: €5M)	14 February 2019	14 May 2019
CEF-TC-2019-1 eDelivery (indicative budget: €1M)	14 February 2019	14 May 2019
CEF-TC-2019-2 Public Open Data (indicative budget: €5M)	4 July 2019	14 November 2019

More information on how you can apply, grant winners and on-going projects is available via INEA's website.

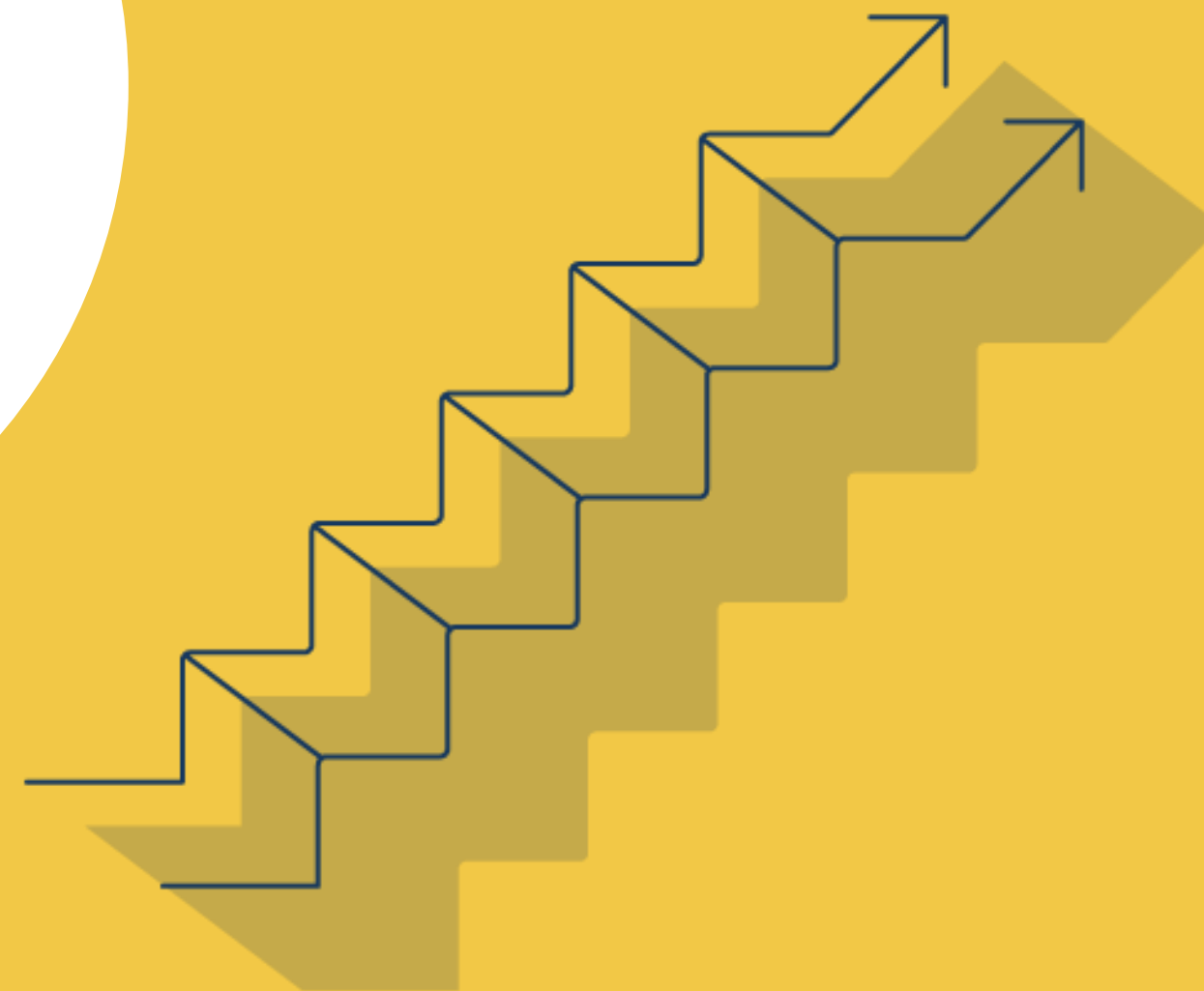
[Visit INEA Website](#)

How many projects have used the building block?

158
projects

[View Dashboard](#)

Growing potential cases
are bringing us closer to
fulfilling the dream.

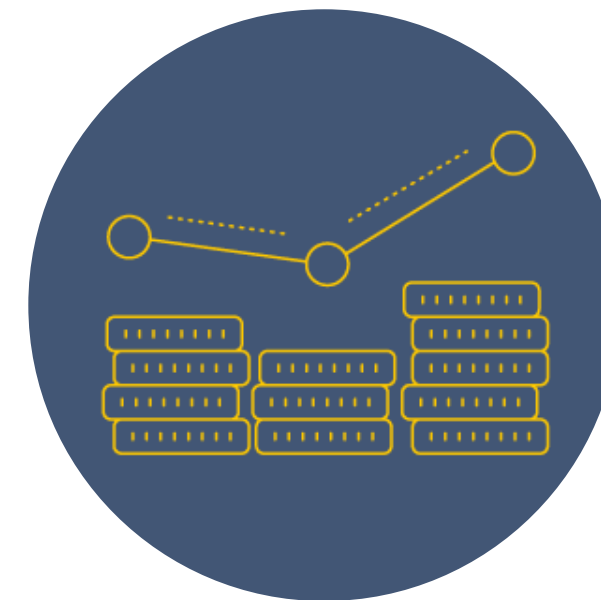


Connected Europe

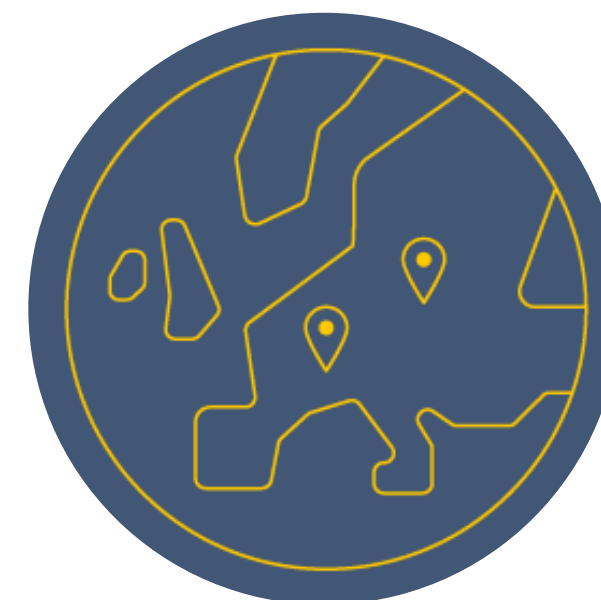
Vision



**Great experience for
citizens and
businesses**



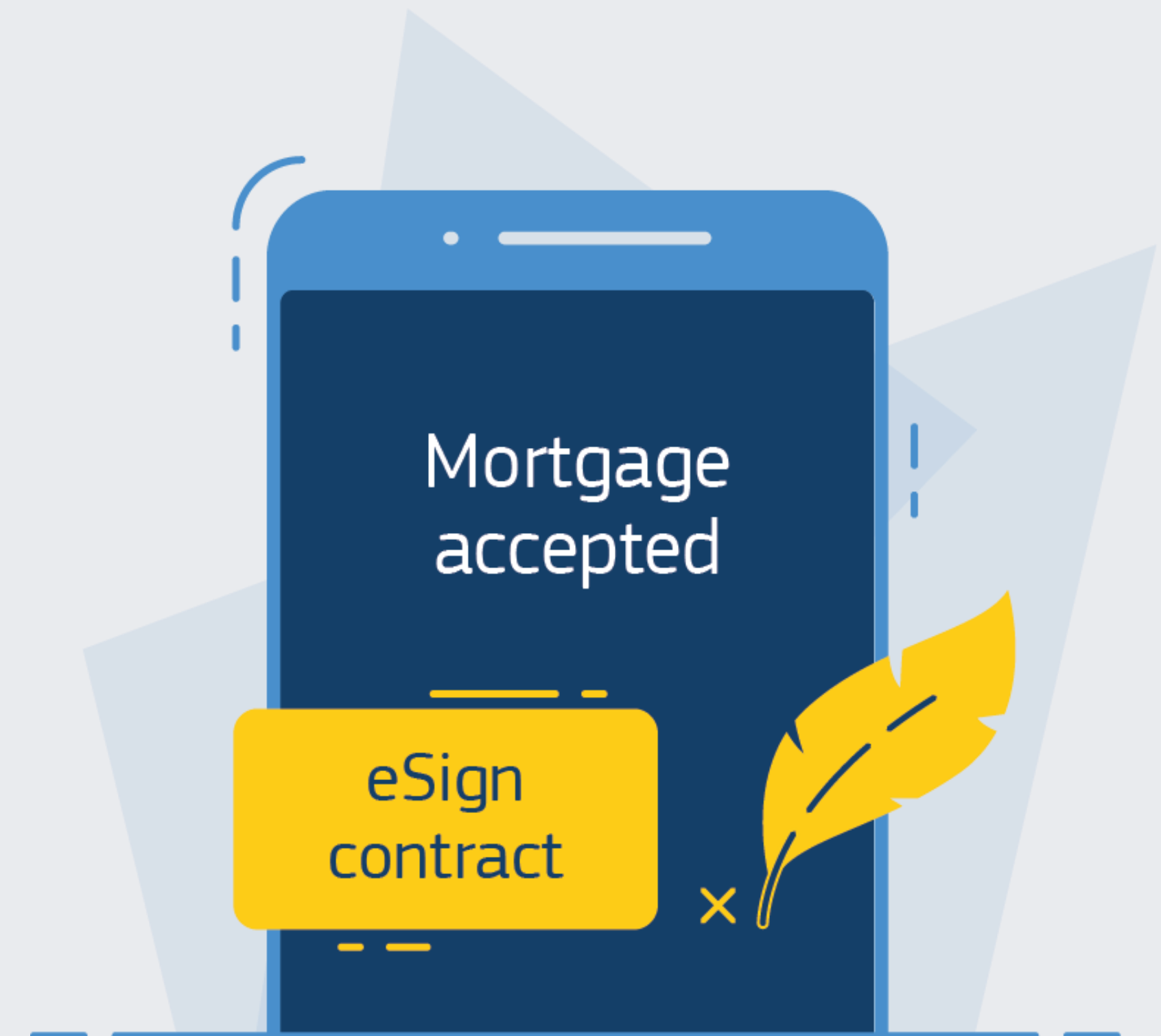
**Building a
data-economy**



**Promoting
cross-border
interoperability**

eSignature Building Block

- An update

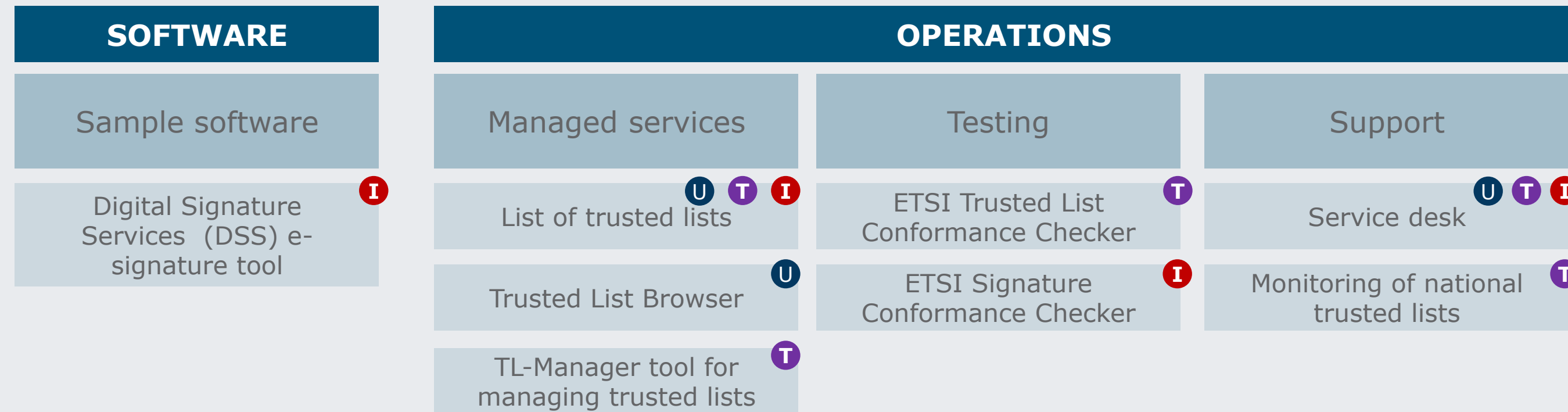


eSignature

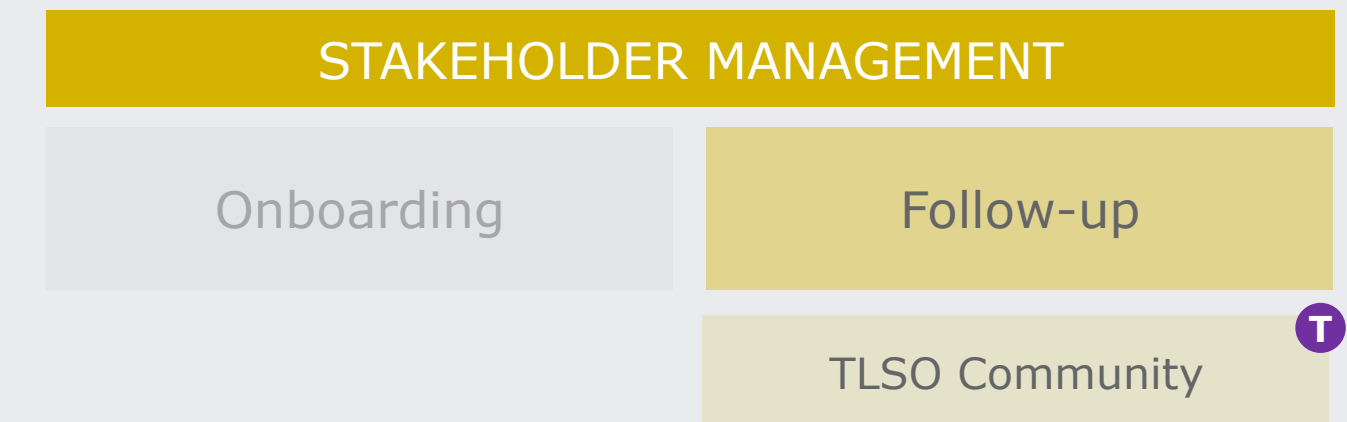
Create and verify legally recognised electronic signatures

CEF eSignature Service Offering

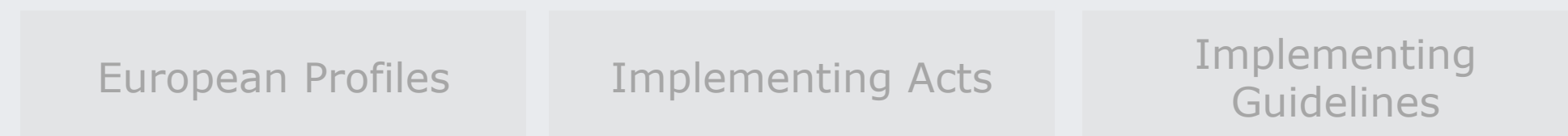
ENABLING SERVICES *enable the adoption of the core services*



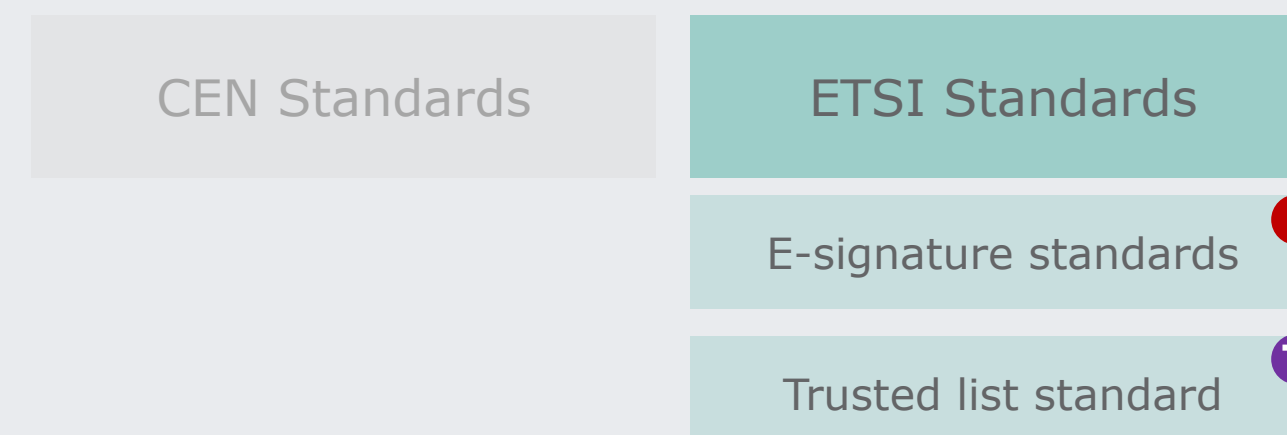
ENHANCING SERVICES *enhance customer experience*



TECHNICAL SPECIFICATIONS



STANDARDS OF ESOs



AUDIENCE

- U** E-signature users (general public)
- I** E-signature solution providers
- T** Trusted List Scheme Operators (TLSOs)

CORE SERVICES *facilitate cross-border/ cross-sector technical interoperability among heterogeneous information systems*

CEF eSignature Service Offering

Tools & software



Trusted List Browser

Tool to browse the European trusted lists. One can search by type of trust service and country, by name of the trust service or search a trust service that issued the signing certificate contained in a file



DSS open-source library

Open-source software library for creation and validation of electronic signature and seals. Out-of-the-box compliance with eIDAS Regulation and ETSI standards.



TL-Manager

Tool that enables the management of Member States' Trusted Lists.



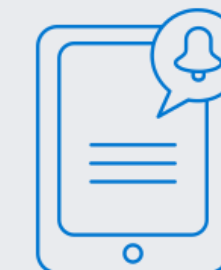
eSig validation tests

Tool to test an eSignature implementation (software providers, TSP, conformity assessment bodies, supervisory bodies, ...). "Fake" LOTLs, TLs, certificates and signed documents are generated automatically, and refreshed on a regular basis.



Monitoring the quality of Trusted Lists:

Service meant to facilitate the improvement of the Trusted Lists through webinars, trainings, development of internal KPIs, etc.

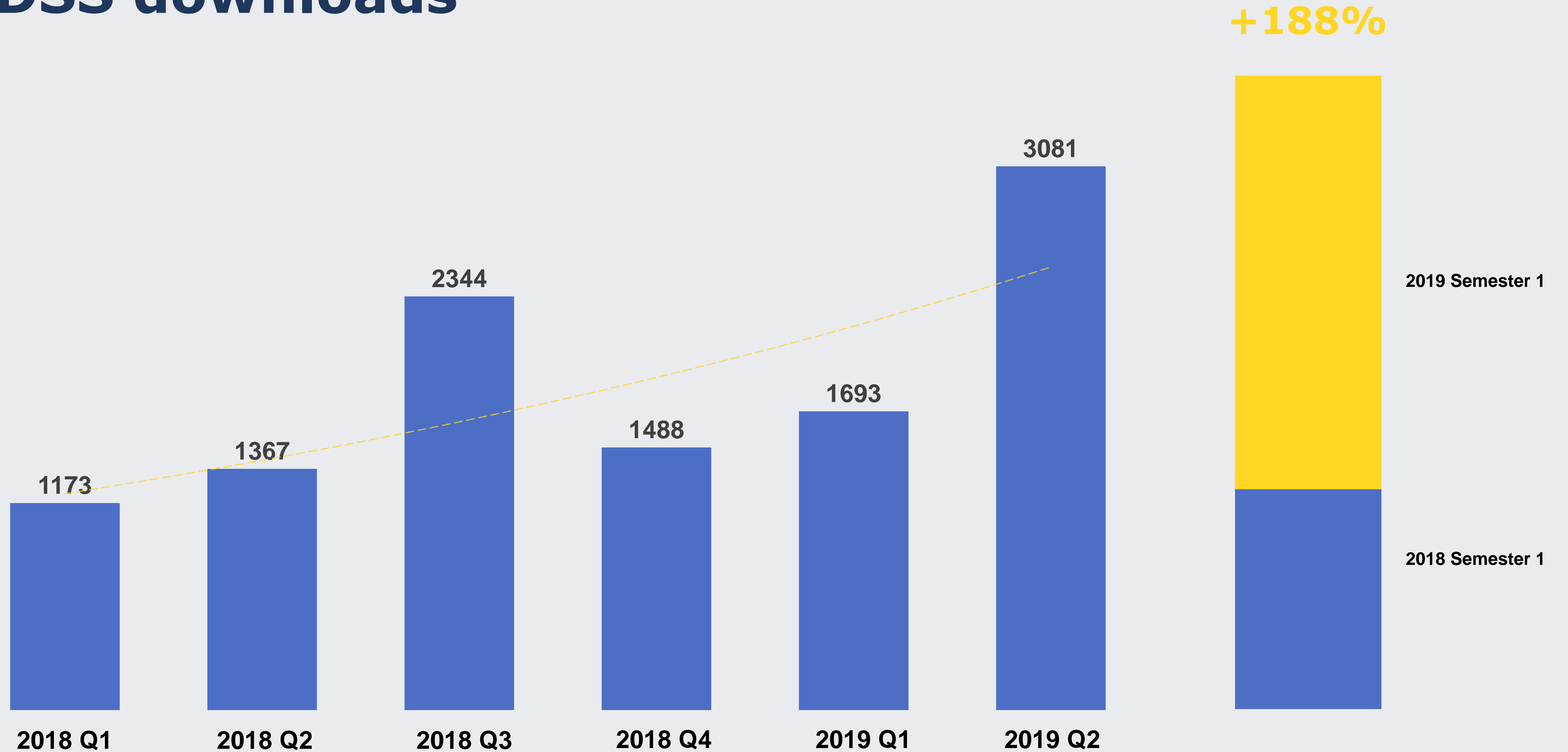


Notification tool



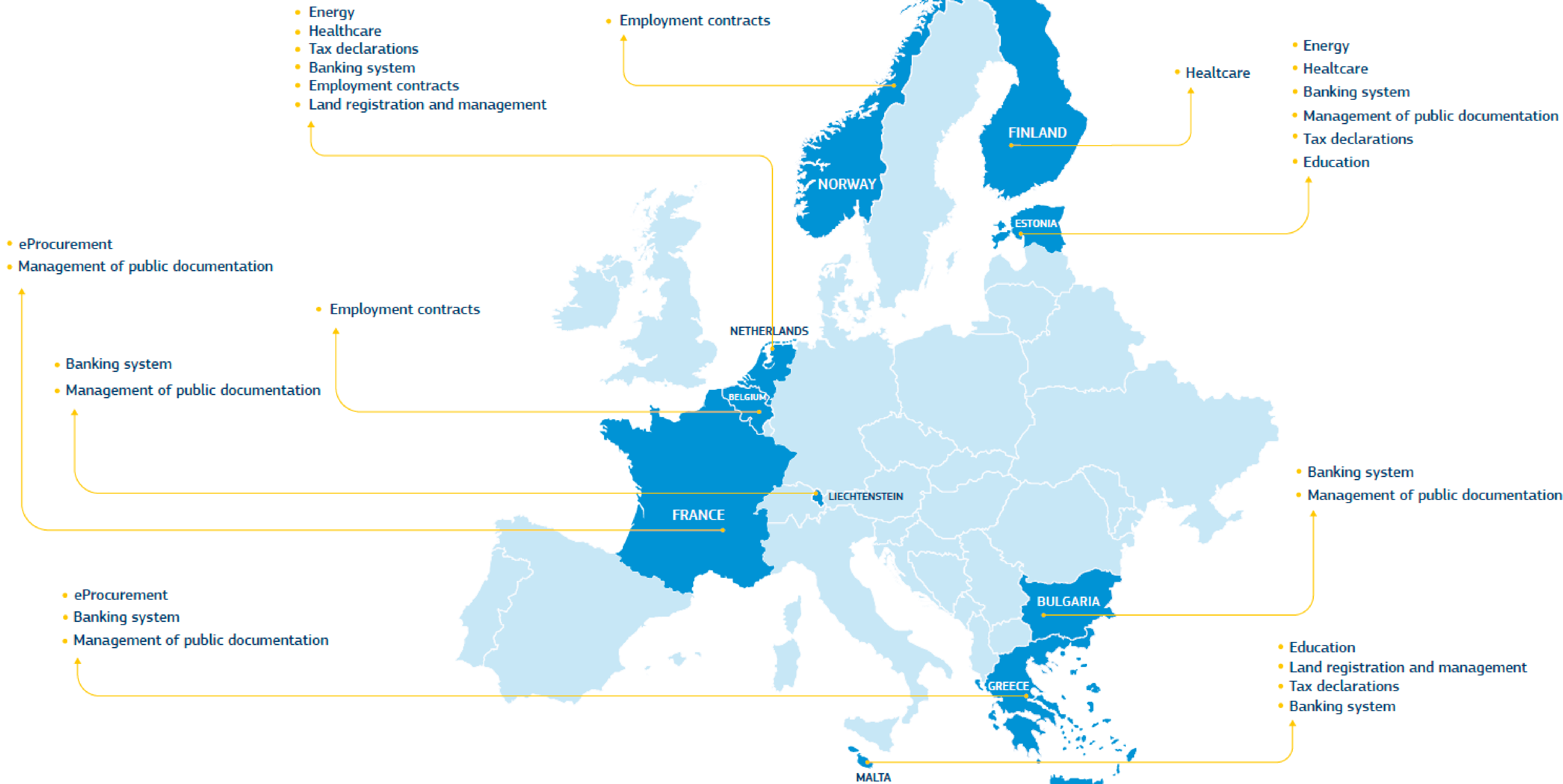
Tool that will help improve the notification system about trust services received from Member States. The information will be structured, centralised via an easy-accessible location and in a user-friendly way.

DSS downloads



Source: European Commission

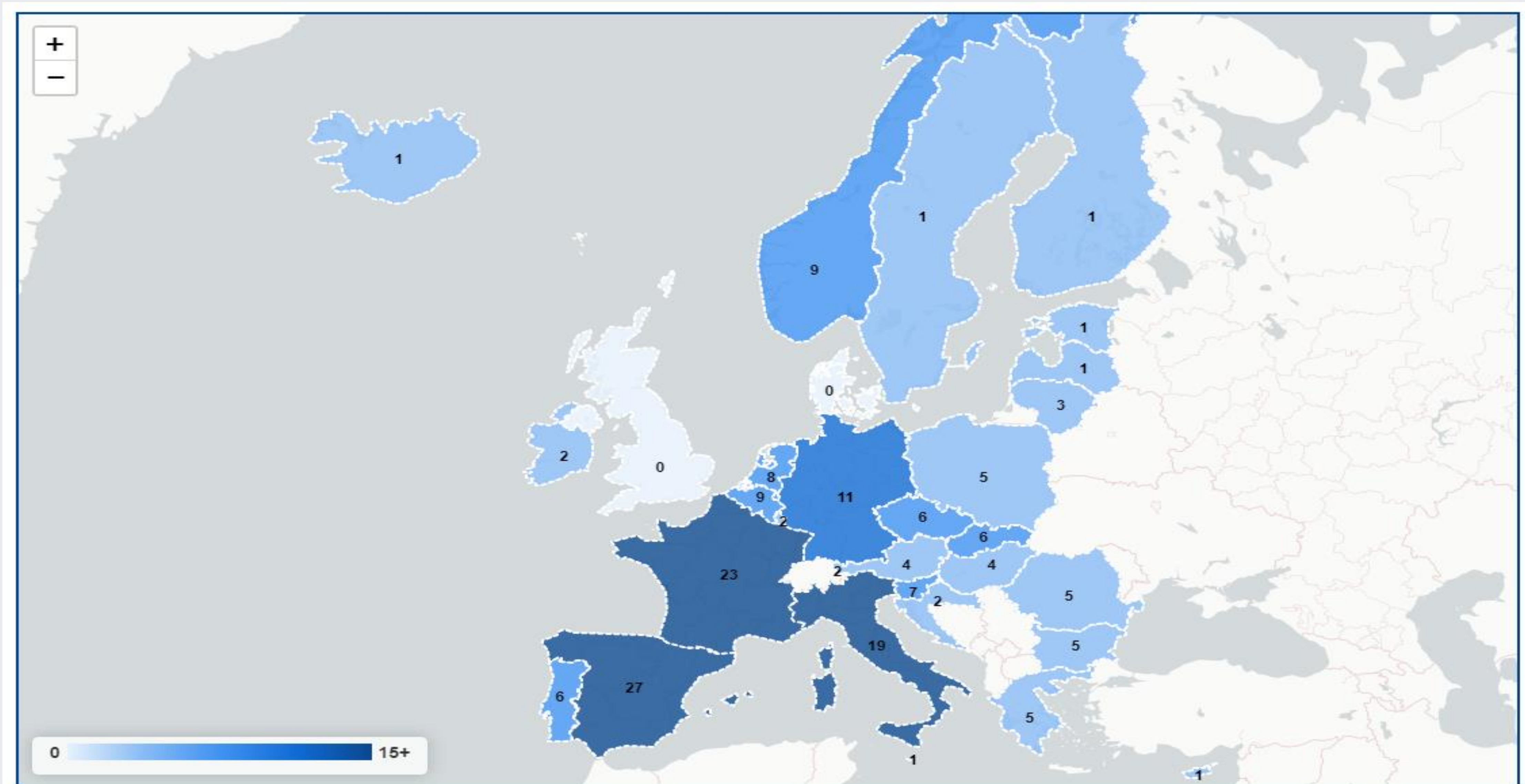
MAIN DOMAINS THAT USE ELECTRONIC SIGNATURES



Source: Information collected by the Member States

Qualified Trust Service Providers in Europe

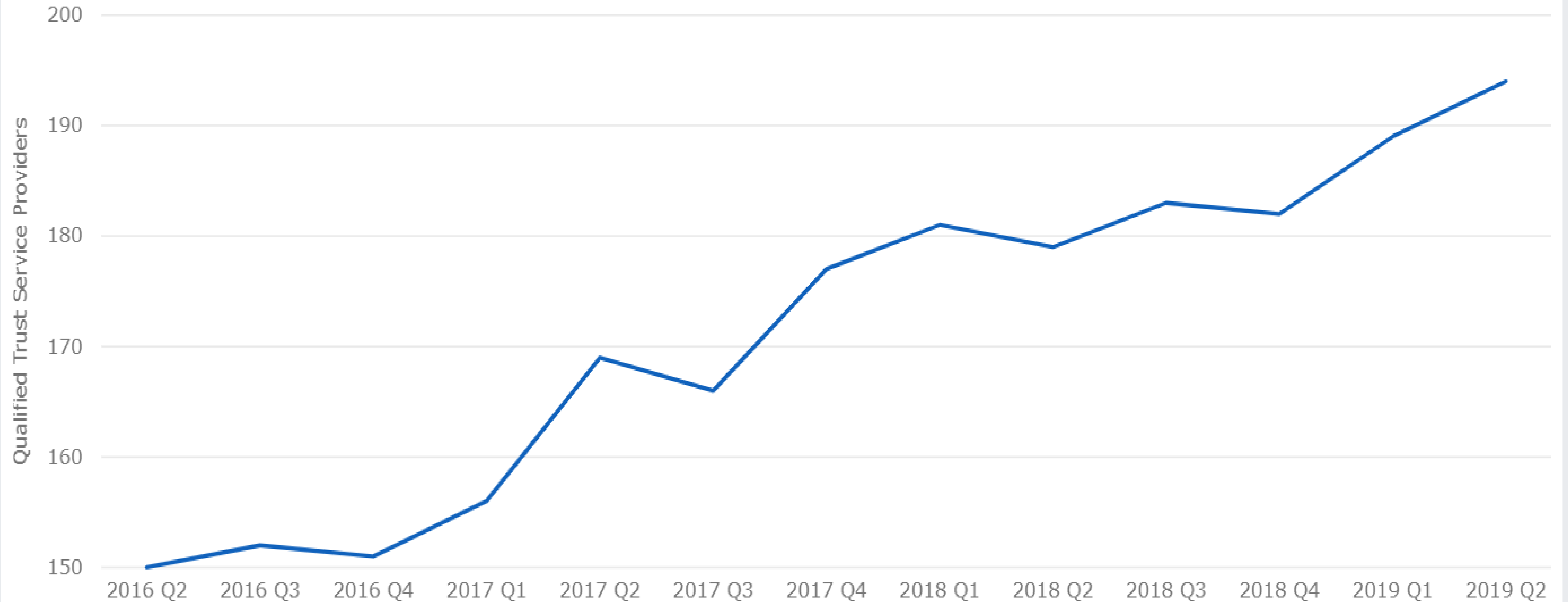
Active qualified trust service providers only **194 in 2019** (182 in 2018)



Source: Information collected by the Member States

Evolution of the total number of QTSP

This chart shows the evolution of the total number of active Qualified Trust Service Providers.



Source: Information collected by the Member States

Number of active QTSP

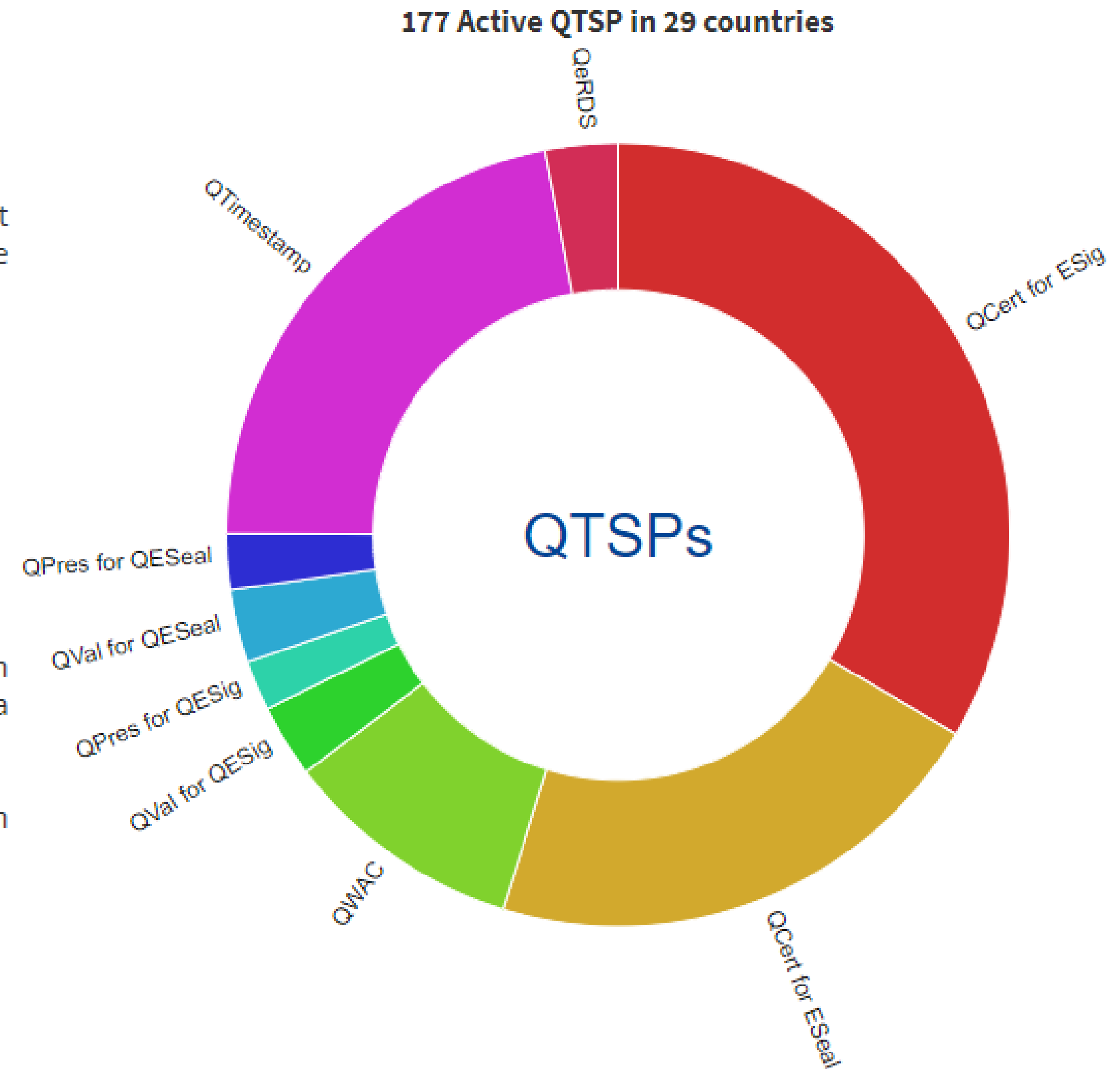
Number of active qualified trust service providers (QTSPs) per type.

Breakdown per type of qualified trust services. There are 9 types of qualified trust services, as defined in the Regulation n°910/2014 (the “eIDAS” Regulation). These types are:

- Qualified certificate for electronic signatures
- Qualified certificate for electronic seals
- Qualified certificate for web site authentication
- Qualified validation of qualified electronic signatures
- Qualified validation of qualified electronic seals
- Qualified preservation of qualified electronic signatures
- Qualified preservation of qualified electronic seals
- Qualified electronic time stamps
- Qualified electronic registered delivery

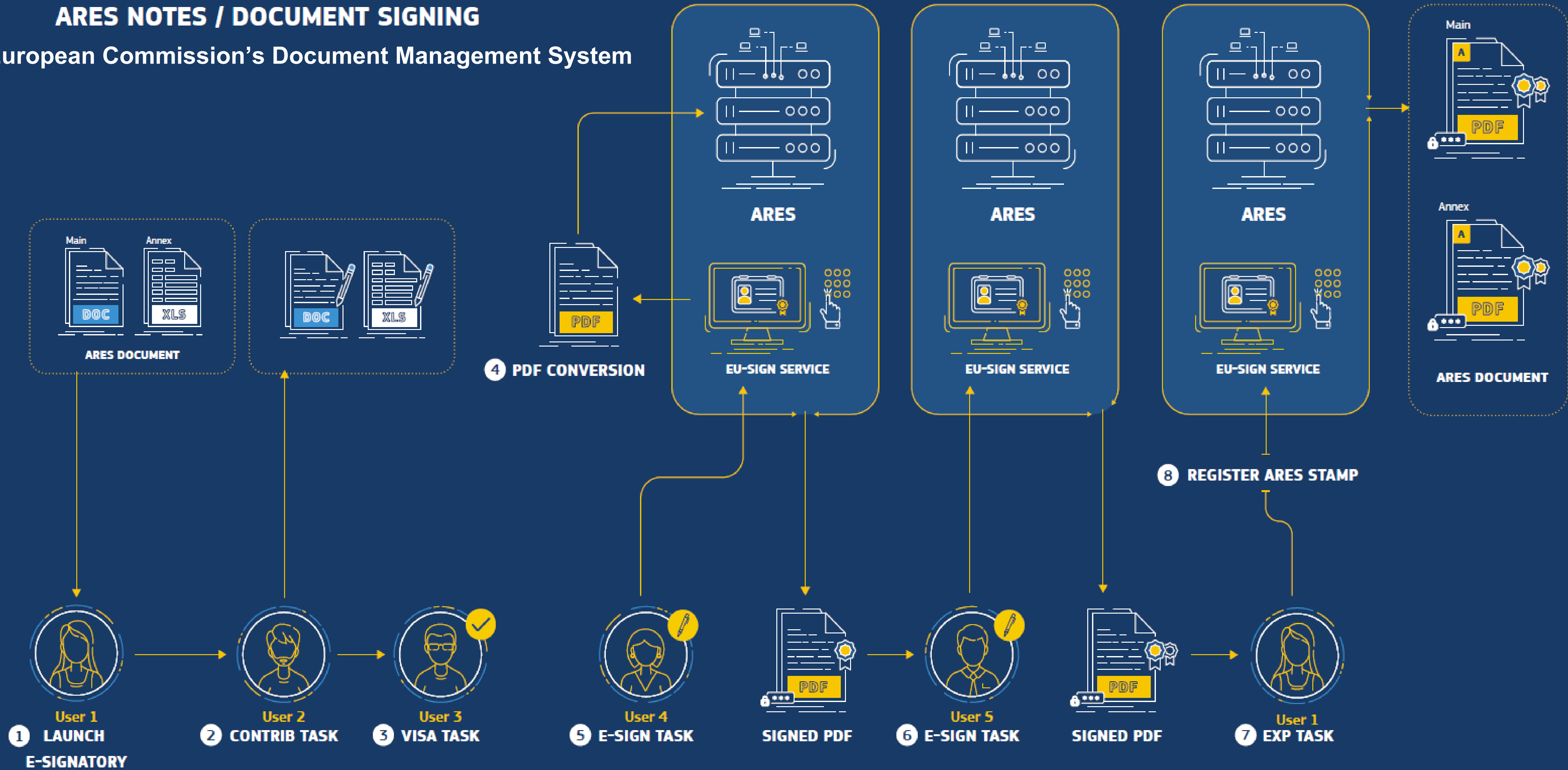
Please refer to [ETSI TS 119 612 v2.1.1](#) for further details on the information contained in a trusted list, in particular Section 5.5.1 “Service type identifier” for a description of the different (qualified) types.

i Click on a pie slice to see details of type by country. Click again anywhere on chart to come back to global overview.



ARES NOTES / DOCUMENT SIGNING

European Commission's Document Management System



First electronic signature on an EU Regulation

Connecting Europe Success Story - eSignature



- Antonio Tajani e-signing on behalf of the European Parliament

BUILDING BLOCK USED

- eSignature

ORGANISATION

- Council of the European Union and the European Parliament

CHALLENGE

- To set an example for all of Europe
- Make legislative process more efficient

SOLUTION

- The **European Parliament Electronic Signature Console**, based on the Digital Signature Service (DSS) of the CEF eSignature Building Block

READ THE SUCCESS STORY:

europa.eu/!fd89Jd

Next steps



2019

Completed activities

- **Workgroup for the federation of electronic signatures among European Institutions**
- Publication of the recently modified location of the LOTL in the Official Journal
- DSS version 5.5
- TL-Manager version 5.6
- FAQs
- eSignature video



2019

Planned activities

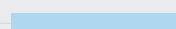
- **EC/EP debate on topics such as formation of a center of excellence and joint trainings on e-signatures**
- Country sheets infographics
- New service desk
- TLSO webinar
- TLSO training



2020

Planned activities

- **Roll-out of EU Sign, a DSS based application, as the solution for eSignatures at EC**
- Notification tool
- Internal KPI for monitoring
- Enrich TL Browser



eDelivery Building Block

- An update

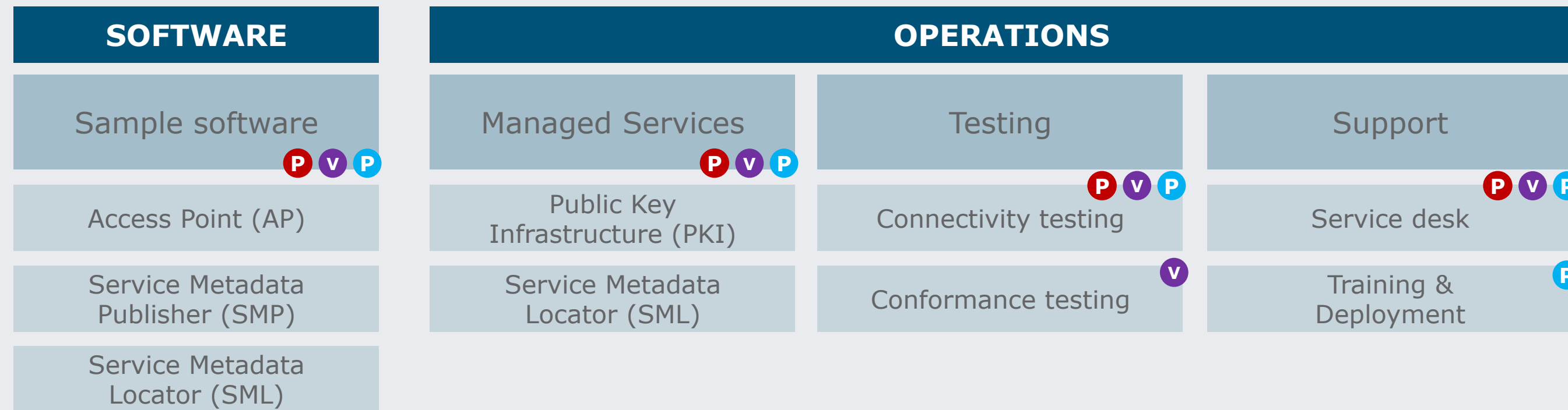


eDelivery

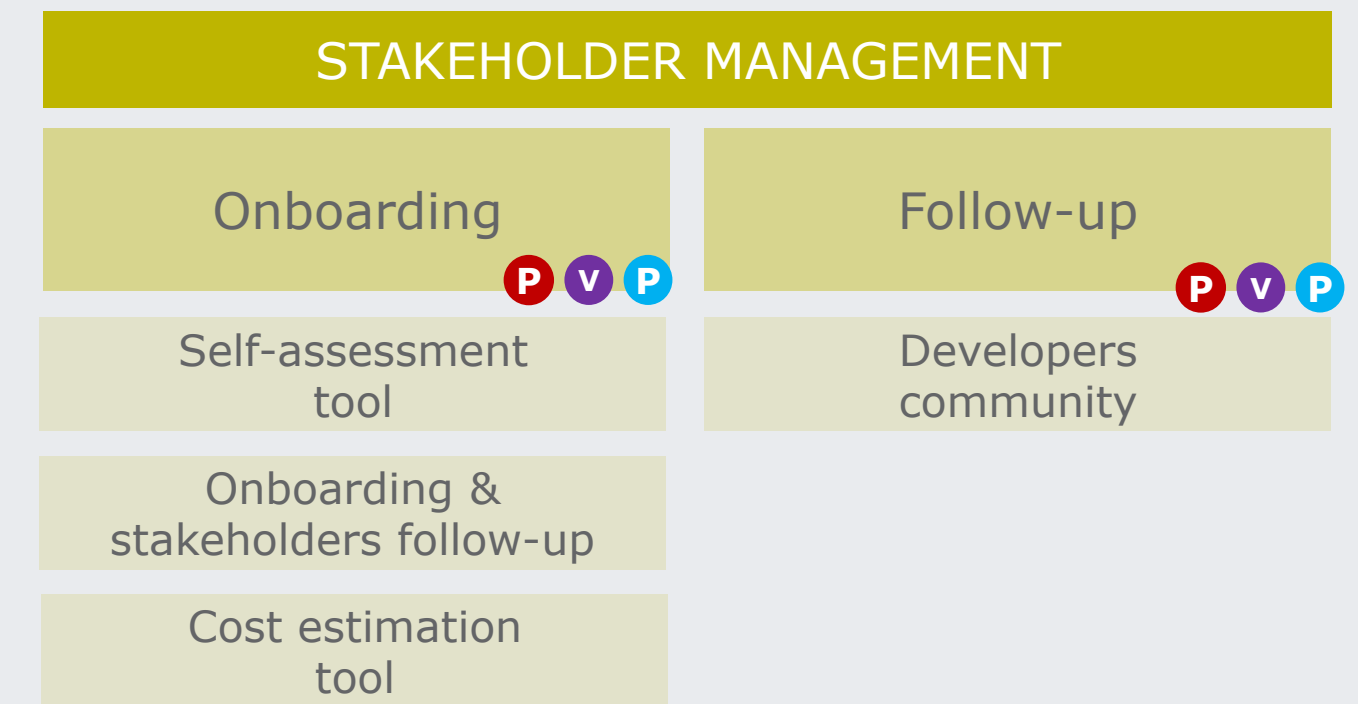
Exchange data and documents securely

CEF eDelivery Service offering

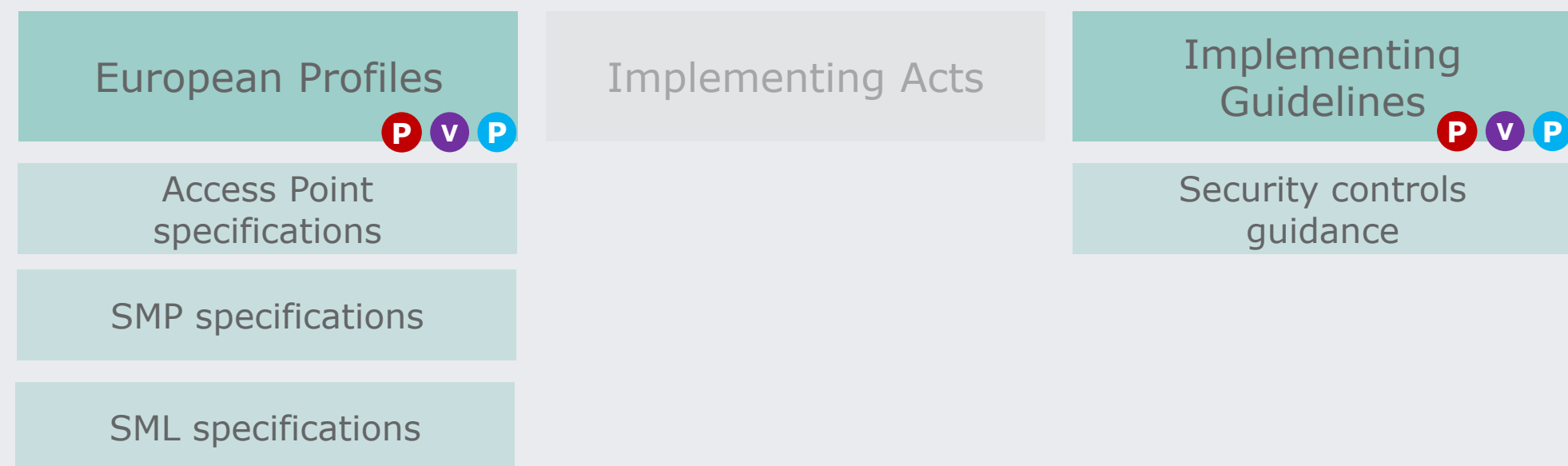
ENABLING SERVICES *enable the adoption of the core services*



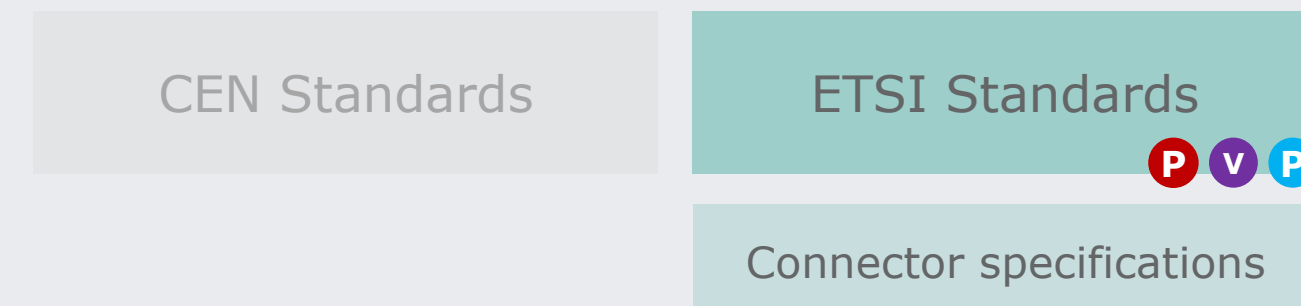
ENHANCING SERVICES *enhance customer experience*



TECHNICAL SPECIFICATIONS



STANDARDS OF ESOs



CORE SERVICES *facilitate cross-border/ cross-sector technical interoperability among heterogeneous information systems*

USER

- P Cross-border projects – Public sector entities
- P Cross-border projects – Private sector entities
- V Software vendors

eDelivery onboarding-race



PHASE

PROSPECTING

ELICIT requirements

COMMITEMENT GATE

DESIGN

eDelivery infrastructure

SET UP

SELECT

eDelivery solutions

DEPLOY

eDelivery solutions

OPERATE

eDelivery solutions

CEF
DSIs

EU Student eCard
DG CNECT

Platform on
Disinformation DG CNECT

NEW

NEW

eHealth (AS4)
DG SANTE

eHealth (SMP)
DG SANTE

ODR
DG JUST

e-Justice | eCodex
DG JUST

EESSI
DG EMPL

eProcurement (*)
GROW | DIGIT

ELRC
DGT

eTranslation
DGT

BRIS
DG JUST

Other
Policy
Projects

Customs Single Window
DG TAXUD

eTransport Docs
DG MOVE

ECRIS
DG JUST

NIVA project
REA/AGRI/CNECT

NEW

Central Clearance
Import DG TAXUD

FLUX TL
DG MARE

Inland Waterway
Transport DG MOVE

Maritime Single Window
DG MOVE

CISE
DG MARE

Single Digital Gateway
DG GROW

NEW

Exchange of road-
safety-related traffic
offences DG MOVE

NEW

ICS2
DG TAXUD

DECIDE (upgrade)
SG

EPREL
DG ENER

EU-CEG
DG SANTE

TAPAS
DG TAXUD

EUDAMED 3
DG GROW

PNR (regulated)
DG HOME

SPEED2
DG TAXUD

eEvidence
DG JUST

IRI
DG JUST

TACHOnet
DG MOVE

Member
State
led projects
(including
CEF grants)

Global Interoperability
Framework EESPA

NEW

Utdataprojektet
DIGG

EDI4STEEL
TNO (NL)

NEW

eDelivery national
gateway AMA (PT)

NEW

NOBLE project
(Postal Services)

PEPPOL
(upgrade to AS4)

TOOP (once-only)

iADAATPA
Pangeanic's consortium

Slovenia Supreme
Court's communications
Laurentius

e-Boks
Nets and PostNord

e-Impact
(CEF Transport)

Logistics Single Window
Safety and Maritime
services (PT)

Development of NL
eDelivery gateway
RINIS

Other
institutions

European Aviation
Safety Agency

EMSA
SafeSeaNet

OSS system European
Agency for Railways

CIxP
The European Council

eDocX2017
DG HOME (EMCDDA)

ENTSOG
(Gas operators)

European Anti-Fraud
Office

PCN system European
Chemicals Agency

Eurojust

IMMC
Parliament

European Citizens'
Initiative

(*) Also part of PEPPOL

Pilot/PoC projects

EUDAMED

A Connecting Europe Success Story

CHALLENGE

Member States need to ensure that medical devices comply with provisions of **Medical Devices Directives**.

Enable transmission of **data from more than 80,000** manufacturers and notified bodies.

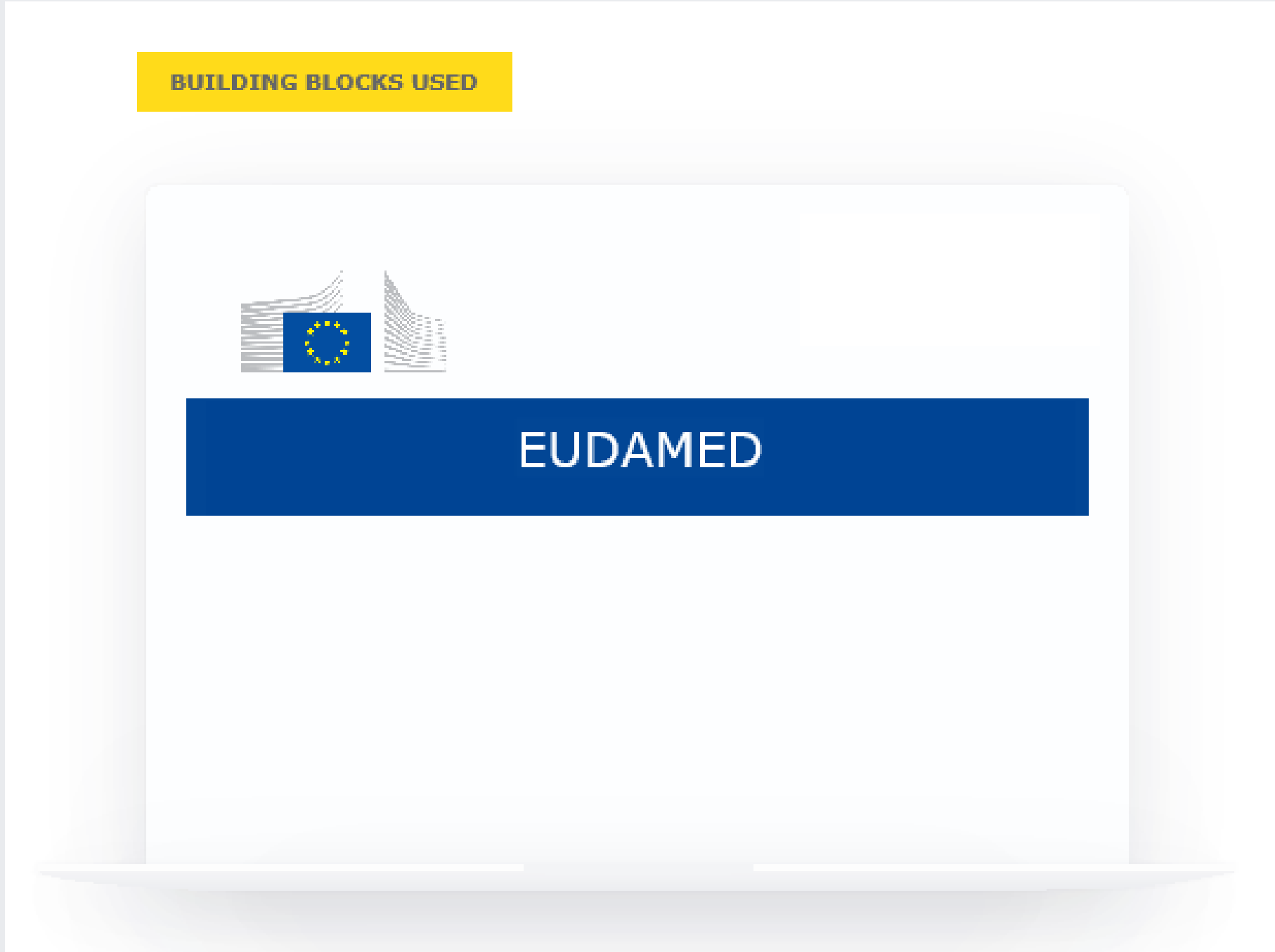
Share knowledge about technological progress, faulty devices and approved machinery.

WHO ARE WE CONNECTING



BENEFICIARIES

- Citizens (patients): enjoy better healthcare and health protection
- Businesses (Medical Device Manufacturers): easier to launch new products
- Medical professionals: informed decisions thanks to increased transparency of the medical device market



POWERED BY THE CEF BUILDING BLOCKS

- eID
- eDelivery
- eInvoicing
- eSignature
- eTranslation
- Context Broker
- eArchiving
- BDTI

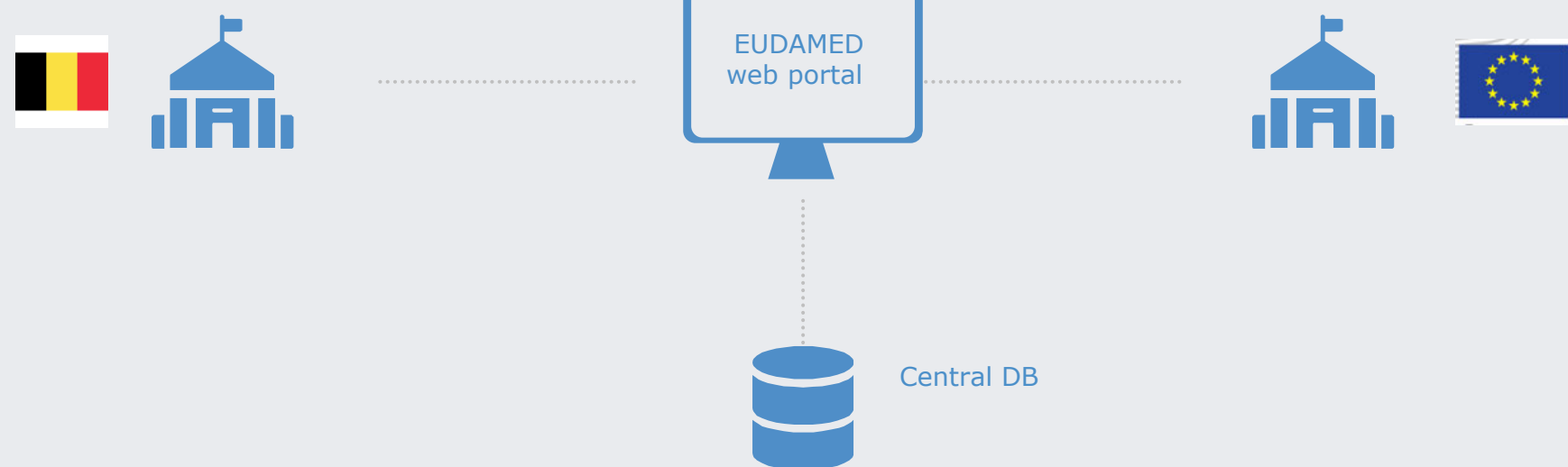
EUDAMED

A Connecting Europe Success Story

USER NEED



A medical professional in Belgium wants to report an incident that incurred using a medical device



1. Medical professional logs into the vigilance module of EUDAMED, a secure web-based portal.
2. User is able to load, extract and modify data, and to make reports and queries on the EUDAMED database.
3. Data is securely transmitted using [eDelivery](#).
4. Data is accessible across Europe.

KEY TAKEAWAY

*EUDAMED aims to enhance overall **transparency**, including **better access to information** for public and healthcare professionals. In addition, the objective is to **avoid multiple reporting requirements**, to **enhance coordination** between the Member States and to **streamline and facilitate the flow of information** between economic operators, notified bodies or sponsors and the Member States, and between the Member States among themselves and with the European Commission.*

Find out more!

How can the CEF building blocks help you achieve your objectives?



Visit our website

Learn more on how to get started with the building blocks and get access to specific content such as our Success Stories, tech articles, sample software / specifications, etc.

<http://ec.europa.eu/cefdigital>

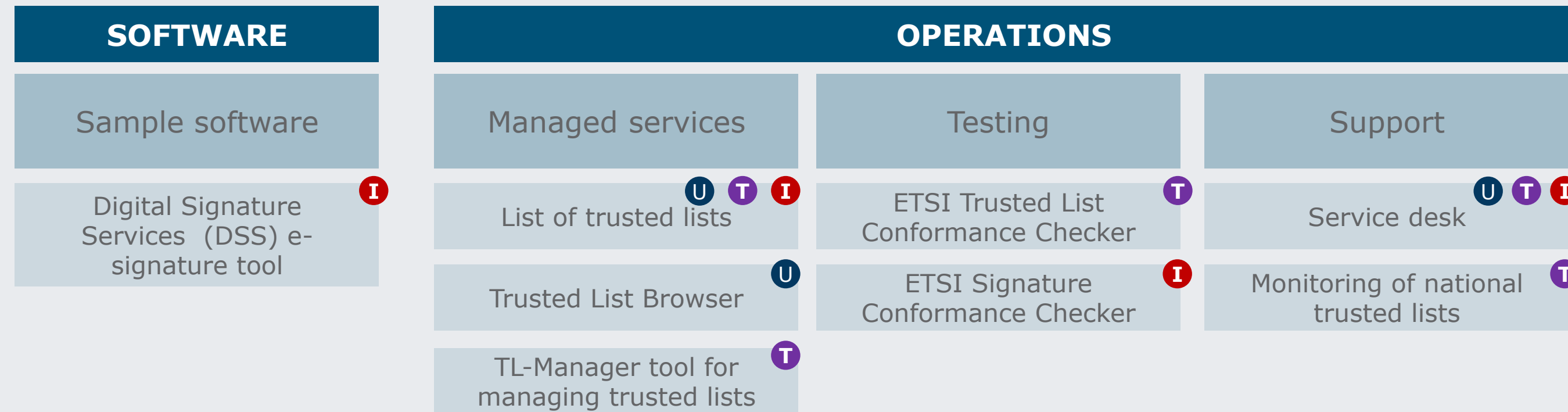
Contact us

Do you want to use the building blocks for your project? Do you want to tell us more about your project?

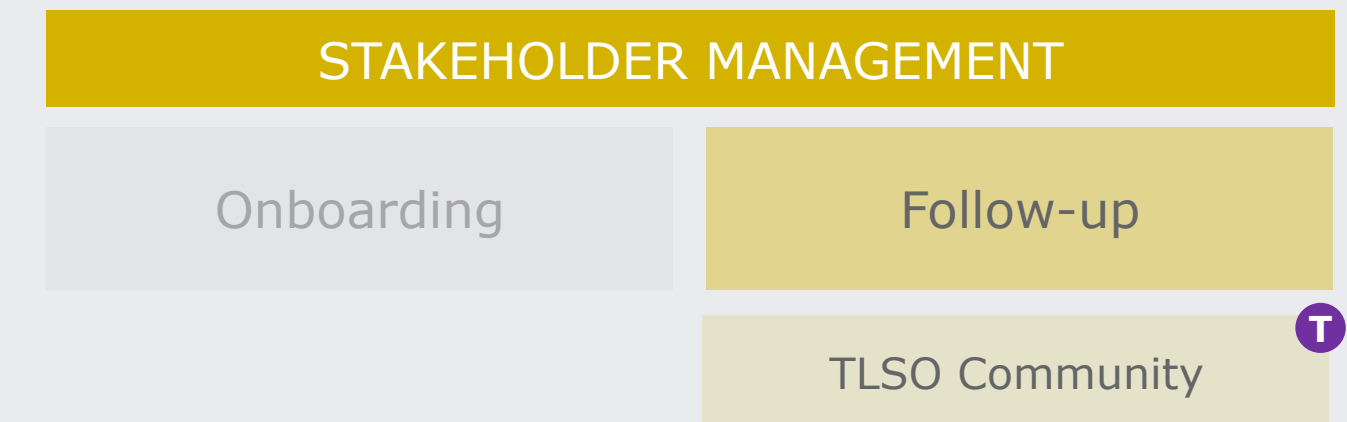
Contact us: cef-building-block@ec.europa.eu

CEF eSignature Service Offering

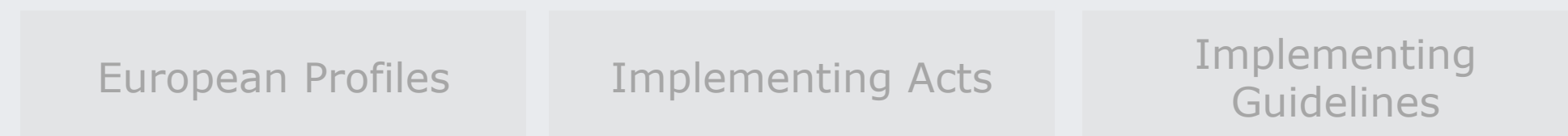
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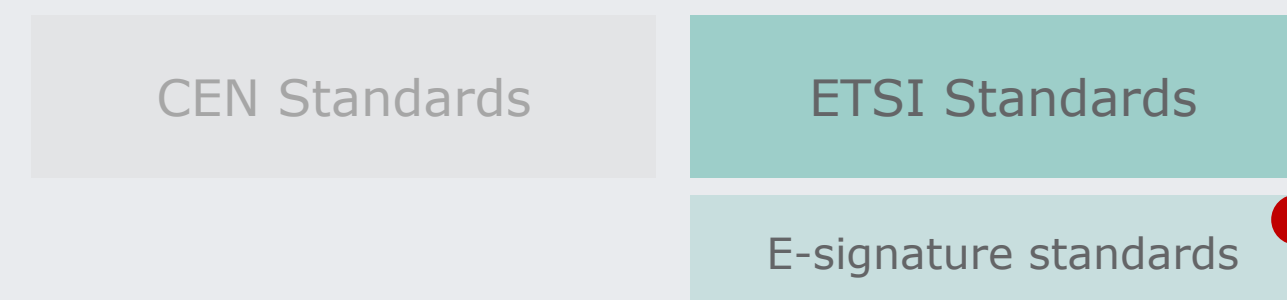
ENHANCING SERVICES *enhance customer experience*



TECHNICAL SPECIFICATIONS



STANDARDS OF ESOs



Service offering Description (SoD)

All services are described in an SoD describing its purpose, the users for which it is for, its benefits and the process to obtain it



Service Level Arrangements (SLA)

Documents that describe Service Level Targets to be reached when delivering Building Block Services.



FAQs, videos, training, success stories

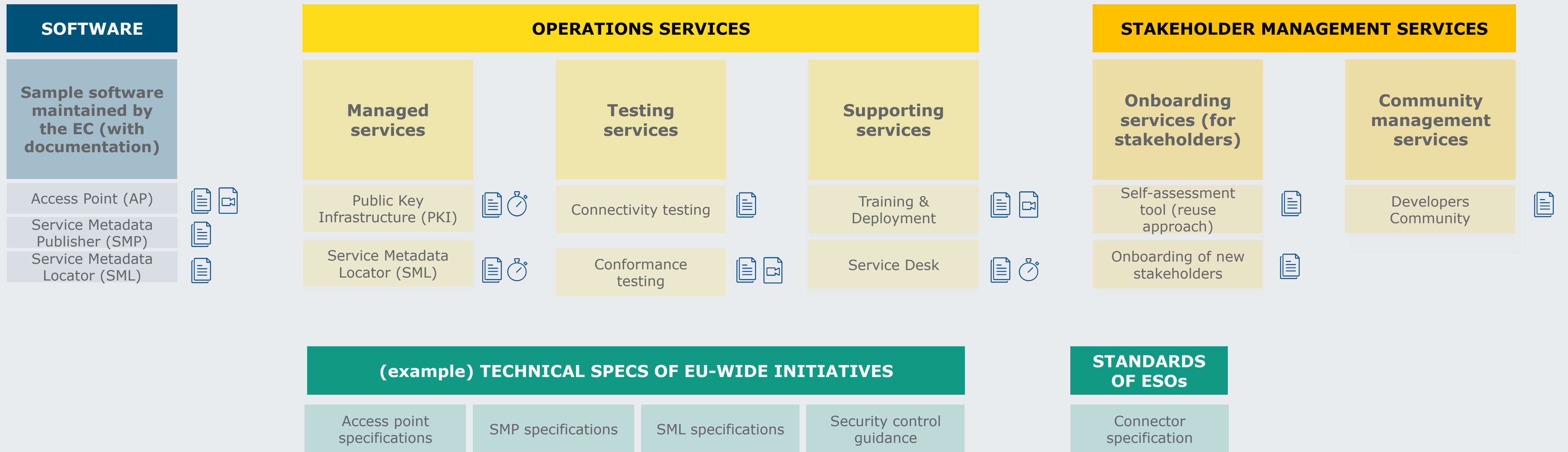
Some services feature multimedia such as FAQs, introductory or instructional videos or success stories to help grasp what the service is about

CEF Digital platform

CEF eDelivery service offering, and more about the building block, can be found online

[CEF Digital >](#)

CEF eDelivery Service offering



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